

# Yifeng Ding

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## Research Interests

My research interest lies in Large Language Models (LLMs) for Code. My ongoing works include improving LLMs with **Instruction Tuning** and **Mixture-of-Experts (MoE)** for better code generation and automated debugging.

## Education

Since 2022 **University of Illinois Urbana-Champaign (UIUC)**,  
Ph.D. student in Computer Science,  
Advisor: [Prof. Lingming Zhang](#)

2018–2022 **Tsinghua University**,  
B.S. in Software Engineering,  
Double Major: B.S. in Business Administration

## Publications

- [1] **Yifeng Ding**, Jiawei Liu, Yuxiang Wei, Terry Yue Zhuo, and Lingming Zhang. “ $\mathcal{X}$ FT: Unlocking the Power of Code Instruction Tuning by Simply Merging Upcycled Mixture-of-Experts”. *62nd Annual Meeting of the Association for Computational Linguistics (ACL 2024)*. [\[paper\]](#).
- [2] Yuxiang Wei, Zhe Wang, Jiawei Liu, **Yifeng Ding**, and Lingming Zhang. “Magicoder: Source Code Is All You Need”. *Forty-first International Conference on Machine Learning (ICML 2024)*. [\[paper\]](#).
- [3] Chunqiu Steven Xia, **Yifeng Ding**, and Lingming Zhang. “The Plastic Surgery Hypothesis in the Era of Large Language Models”. *38th IEEE/ACM International Conference on Automated Software Engineering (ASE 2023)*. [\[paper\]](#).
- [4] Quan Zhang, Yongqiang Tian, **Yifeng Ding**, Shanshan Li, Chengnian Sun, Yu Jiang, and Jiaguang Sun. “CoopHance: Cooperative Enhancement for Robustness of Deep Learning Systems”. *32nd ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2023)*. [\[paper\]](#).
- [5] Quan Zhang, **Yifeng Ding**, Yongqiang Tian, Jianmin Guo, Min Yuan, and Yu Jiang. “AdvDoor: Adversarial Backdoor Attack of Deep Learning System”. *30th ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2021)*. [\[paper\]](#).

## Academic Service

Reviewer ACL/ARR 2024 Feb

Organizing Committee The First International Workshop on Large Language Models for Code ([LLM4Code 2024](#)), co-located with ICSE 2024

## Talk

- [1] Uber Programming Systems Team: Equipping Large Language Models with Domain-Specific Knowledge for Automated Program Repair

## Honors & Awards

2021 **Research Excellence Scholarship**, Tsinghua University  
2019 **Academic Excellence Scholarship**, Tsinghua University